

SEQUENCE LISTING

<110> Holmes, Randall K. Jobling, Michael G. Eldridge, John H. Green, Bruce A. Hancock, Gerald E. Peek, Joel A.

<120> Mutant Cholera Holotoxin as an Adjuvant

<130> 33,383-00

US 09/806,370 2001-10-03 <140>

<141>

<150> <151> us 60/102,430 1998-09-30

<150> PCT/US99/22520

1999-09-30 <151>

<160>

<170> PatentIn version 3.2

<210>

240 <211>

<212> PRT

Vibrio cholerae <213>

<400> 1

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Lys Gln Ser Gly Gly Leu Met Pro Arg Gly Gln Ser Glu Tyr Phe Asp 20 25 30

Arg Gly Thr Gln Met Asn Ile Asn Leu Tyr Asp His Ala Arg Gly Thr 35 40 45

Gln Thr Gly Phe Val Arg His Asp Asp Gly Tyr Val Ser Thr Ser Ile 50 55

Ser Leu Arg Ser Ala His Leu Val Gly Gln Thr Ile Leu Ser Gly His 65 70 75 80

Ser Thr Tyr Tyr Ile Tyr Val Ile Ala Thr Ala Pro Asn Met Phe Asn 90 95

Val Asn Asp Val Leu Gly Ala Tyr Ser Pro His Pro Asp Glu Gln Glu 100 105 110

Val Ser Ala Leu Gly Gly Ile Pro Tyr Ser Gln Ile Tyr Gly Trp Tyr 115 120 125

Arg Val His Phe Gly Val Leu Asp Glu Gln Leu His Arg Asn Arg Gly 130 140

Tyr Arg Asp Arg Tyr Tyr Ser Asn Leu Asp Ile Ala Pro Ala Ala Asp 160

Gly Tyr Gly Leu Ala Gly Phe Pro Pro Glu His Arg Ala Trp Arg Glu
Glu Pro Trp Ile His His Ala Pro Pro Gly Cys Gly Asn Ala Pro Arg
Ser Ser Met 195 Ser Asn Thr Cys Asp Glu Lys Thr Gln Ser Leu Gly Val
Lys Phe Leu Asp Glu Tyr Gln Ser Asp Ile Asp Thr His Asn Arg Ile Lys Asp Glu Leu
Gly Tyr Gln Ser Asp Ile Asp Thr His Asn Arg Ile Lys Asp Glu Leu
Lys Phe Leu Asp Glu Tyr Gln Ser Asp Ile Lys Asp Glu Leu
Lys Cys Gly Asn Ala Pro Arg
Arg Ile Lys Asp Glu Leu
Leu
Lys Cys Gly Asn Ala Trp Arg
Arg Ile Lys Asp Glu Leu
Leu
Lys Cys Gly Asn Ala Trp Arg
Arg Ile Lys Asp Glu Leu
Leu
Lys Cys Gly Asn Ala Pro Arg
Arg Ile Lys Asp Glu Leu
Leu
Lys Cys Gly Asn Ala Pro Arg
Arg Ile Lys Asp Glu Leu
Leu
Lys Cys Gly Asn Ala Ala Ala
Asp
Arg Ile Lys Asp Glu Leu
Leu
Lys Cys Gly Asn Ala Trp Arg
Arg Ile Lys Asp Glu Leu
Lys Cys Gly
Asn Ala Pro Ala Ala
Asp
Arg Ile Lys Asp Glu Leu
Lys Cys Gly
Asn Ala Pro Ala
Ala Pro Ala
Ala Pro
Ala Ala
Asp
Arg Ile
Asp I